1646

PAGE: 1

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/199,874

DATE: 03/10/2000

TIME: 15:41:06

Input Set: I199874.RAW

This Raw Listing contains the General Information Section and up to first 5 pages.



																V	
1	<110>	APPLICA	NT:	Segr	e, G	ino '	V.										
2		Kronenk	erg,	Hen	ry M								_	6	_		
3		Abou-Sa	ımra,	Abd	ul-Ba	adi					T	- =	\mathbf{R}		_)		
4		Juppner	, Ha:	rald							A B	-					
5		Potts,	Jr.,	Joh	n T.												
6		Schipar	ni, E	rnes	tina												
7	<120>	TITLE C	F IN	VENT:	ION:	PAR	ATHY	ROID	HOR	MONE	REC	EPTO	R AN	D DN	A EN	CODING	SAME
8	<130>	FILE RE	FERE	NCE:	007	86/0	7100	5						• •		-4	
9	<140>	CURRENT	APP	LICA'	TION	NUM	BER:	US/	09/1	99,8	74				•	70.	-11
10	<141>	CURRENT	FIL	ING 1	DATE	: 19	98-1	1-24							-1	H ==	晉
11	<150>	EARLIE	APP	LICA'	TION	NUM	BER:	US (08/4	71,4	94						\circ
12	<151>	EARLIE	FIL:	ING 1	DATE	: 19	95-0	6-06								7 ~	
13	<160>	NUMBER	NUMBER OF SEQ ID NOS: 21														
14	<170>	SOFTWAR	SOFTWARE: FastSEQ for Windows Version 4.0														
15	<210>	SEQ ID	SEQ ID NO 1 LENGTH: 1862														
16	<211>	LENGTH:	LENGTH: 1862														
17	<212>	TYPE: I	TYPE: DNA														
18	<213>	ORGANIS	•														
19	<220>	FEATURE	FEATURE:														
20	<221>	NAME/KEY: CDS															
21	<222>	LOCATION: (98)(1642)															
22	<400>	SEQUENCE: 1															
23																	60
24		gtggccccgt tggactcggc cctagggaac ggcggcg atg gga gcg ccc cgg atc 115															115
25											Met	Gl	y Ala	a Pro	o Arg	g Ile	
26											:	L			!	5	
27		tcg cac	agc	ctt	gcc	ttg	ctc	ctc	tgc	tgc	tcc	gtg	ctc	agc	tcc	gtc	163
28		Ser His	ser	Leu	Ala	Leu	Leu	Leu	Cys	Cys	Ser	Val	Leu	Ser	Ser	Val	
29				10					15					20			
30		tac gca	ctg	gtg	gat	gcc	gat	gat	gtc	ata	acg	aag	gag	gag	cag	atc	211
31		Tyr Ala	Leu	Val	Asp	Ala	Asp	Asp	Val	Ile	Thr	Lys	Glu	Glu	Gln	Ile	
32			25					30					35				
33		att ctt	ctg	cgc	aat	gcc	cag	gcc	cag	tgt	gag	cag	cgc	ctg	aaa	gag	259
34		Ile Lev	Leu	Arg	Asn	Ala	Gln	Ala	Gln	Cys	Glu	Gln	Arg	Leu	Lys	Glu	
35		40)				45					50					
36		gtc ctc		_		-		-	-		-		_		_		307
37		Val Leu	. Arg	Val	Pro	Glu	Leu	Ala	Glu	Ser	Ala	Lys	Asp	Trp	Met	Ser	
38		55				60					65					70	
39		agg tct	-	_		_	_				-	-	_				355
40		Arg Ser	Ala	Lys	Thr	Lys	Lys	Glu	Lys	Pro	Ala	Glu	Lys	Leu		Pro	
41					75					80					85		
42		cag gca		_			_	_		_		-			-		403
43		Gln Ala	Glu		Ser	Arg	Glu	Val		Asp	Arg	Ser	Arg		Gln	Asp	
44				90					95					100			

RECEIVED
RAW SEQUENCE LISTING
PATENT APPLICATION US/09/199,874
TROUT Se PAGE: 2

DATE: 03/10/2000 TIME: 15:41:06

Input Set: 1199874.RAW TC 1600 MAIL ROOM

				10 1	600	MAIL	- ROI	MO				•	LIIPC		CC.	11770	, 1 • 1 • 1 • 1
45	ggc	ttc	tgc	cta	cct	gag	tgg	gac	aac	att	gtg	tgc	tgg	cct	gct	gga	451
46		Phe															
47			105					110					115				
48	gtg	CCC	ggc	aag	gtg	gtg	gcc	gtg	CCC	tgc	CCC	gac	tac	ttc	tac	gac	499
49	Val	Pro	Gly	Lys	Val	Val	Ala	Val	Pro	Cys	Pro	Asp	Tyr	Phe	Tyr	Asp	
50		120					125					130					
51	ttc	aac	cac	aaa	ggc	cga	gcc	tat	cgg	cgc	tgt	gac	agc	aat	ggc	agc	547
52		Asn	His	Lys	Gly	Arg	Ala	Tyr	Arg	Arg	Cys	Asp	Ser	Asn	Gly	Ser	
53	135					140					145					150	
54		gag	_												_	-	595
55	Trp	Glu	Leu	Val		Gly	Asn	Asn	Arg		Trp	Ala	Asn	Tyr		Glu	
56					155					160					165		
57	_	gtc	_		_						_		-	_		-	643
58	Cys	Val	Lys		Leu	Thr	Asn	GIu		Arg	Glu	Arg	GIu		Pne	Asp	
59				170		.			175	.				180			CO1
60	_	ctc		_													691
61 62	Arg	Leu	185	Mec	тте	Tyr	THE	190	GIY	Tyr	ser	TIE	195	ьeu	GIY	ser	
63	ata	act		aa+	at a	ata	a++		aa+	+ > 0	+++	200		tta	cat	tac	739
64		Thr		-	_			_									733
65	шeu	200	vai	AIG	vai	пец	205	пец	Gry	TYL	FIIC	210	nr 9	neu	1113	Cys	
66	acc	cga	aac	tac	att	cac		cat	ctc	ttc	ata		ttt	atσ	ctc	caa	787
67		Arg					_							_			
68	215	_		-1-		220					225					230	
69		gta	agc	atc	ttc		aaσ	gat	act	ata		tac	tca	aaa	att		835
70		Val															
71					235		•	•		240		•		-	245		
72	aca	gat	gaa	atc	gag	cgc	atc	acc	gag	gag	gag	ctg	agg	gcc	ttc	aca	883
73	Thr	Asp	Glu	Ile	Glu	Arg	Ile	Thr	Glu	Glu	Glu	Leu	Arg	Ala	Phe	Thr	
74				250					255					260			
75	gag	cct	ccc	cct	gct	gac	aag	gcg	ggt	ttt	gtg	ggc	tgc	aga	gtg	gcg	931
76	Glu	Pro	Pro	Pro	Ala	Asp	Lys	Ala	Gly	Phe	Val	Gly	Cys	Arg	Val	Ala	
77			265					270					275				
78	_	acc	_					_								_	979
79	Val	Thr	Val	Phe	Leu	Tyr		Leu	Thr	Thr	Asn	-	Tyr	Trp	Ile	Leu	
80		280					285					290					
81		gaa						_				_	-				1027
82		Glu	GIY	Leu	Tyr		His	ser	Leu	He		Met	Ala	Pne	Pne		
83	295					300					305		.			310	1005
84		aaa	_														1075
85 86	GIU	Lys	ьуѕ	Tyr	леи 315	Trp	GIŞ	Pne	Thr	320	Pne	GIY	тър	GIY	325	PIO	
87	900	gtg	+++	ata		ata	taa	ata	200		200	aat	202	cta		220	1123
88	_	Val		_	-							-		_	_		1123
89	ALG	4 CT T	* 11E	330	пта	AGT	1	VAL	335	AGT	AT 9	nia	- 111L	340	a		
90	act	gag	tac		gac	cta	aσt	t.co		aat	aaσ	aaa	taa		ata	caq	1171
91		Glu															
92			345		 -			350	1		-1-	-1-	355				
93	ata	ccc		cta	gca	gct	att		gta	aac	ttt	att		ttt	atc	aat	1219
94		Pro		_	_	_											

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/199,874 DATE: 03/10/2000 TIME: 15:41:06 PAGE: 3

Input Set: 1199874.RAW

														TIPU	נו ט	ec.	11990	7 . ICAN
95			360					365					370					
96		ata		aσa	atc	cta	act.		aaa	ata	caa	σασ		aat	σca	aaa	aga	1267
97				_	-	-	-							Asn	_		-	
98		375		5			380		-1 -		3	385				1	390	
99			qac	acq	aqq	caa		tat	aqa	aaq	ctq		aaq	tcc	acq	cta		1315
100		_	-	_			-		-	-	_	_	_	Ser	_		-	
101		•	-		_	395		-	_	-	400		•			405		
102		ctc	atg	ccg	cta	ttt	ggg	gtg	cac	tac	atc	gtc	ttc	atg	gcc	acg	ccg	1363
103		Leu	Met	Pro	Leu	Phe	Gly	Val	His	Tyr	Ile	Val	Phe	Met	Ala	Thr	Pro	
104				•	410					415					420			
105	-	tac	aca	gaa	gta	tca	ggg	att	ctt	tgg	caa	gtc	caa	atg	cac	tat	gaa	1411
106		Tyr	Thr	Glu	Val	Ser	Gly	Ile	Leu	Trp	Gln	Val	Gln	Met	His	Tyr	Glu	
107				425					430					435				
108		_						_				_	_	att			_	1459
109		Met		Phe	Asn	Ser	Phe		Gly	Phe	Phe	Val	Ala	Ile	Ile	Tyr	Cys	
110			440					445					450					
111			_				_		-			_	_	tca		_	-	1507
112			Cys	Asn	Gly	Glu		Gln	Ala	Glu	Ile	-	Lys	Ser	Trp	Ser	_	
113		455		-			460					465					470	
114				_	_	_	_		_		_	_		agt		_	-	1555
115		Trp	Thr	Leu	Ala		Asp	Phe	Lys	Arg	-	Ala	Arg	Ser	GIY		ser	
116						475				.	480					485		1.602
117				_				_					-	gtc				1603
118 119		THE	Tyr	ser	191 490	GIY	Pro	мес	vaı	495	HIS	THE	ser	Val		ASI	vai	
120		~~~	aat			~~~	+~~	aat	+~+		+ 00	~~~	a + a	~~~	500	a+ a a i	- ~~	1652
121				_	Gly				-			_		gac	Lay		-99	1652
122		GIY	PIO	505	GLY	GIY	тър	PIO	510	PIO	SET	Ата	пец	515				
123		ggci	tagaa		arta	rcaat	-a a	rcato		art	acct	aac	tato		מכ :	ataat	ttccat	1712
124				-						_	_				_		gtatct	1772
125						-				_	-			_	_		ggagga	1832
126					acagt		_				,,,,	,				_	,, ,,	1862
127	<210>			_	_	•												
128	<211>	LEN	GTH:	1863	3													
129	<212>	TYP	E: DI	A														
130	<213>	ORG	ANISI	M: D:	idel	phoi	lea											
131	<220>																	
132	<221>																	
133	<222>				98).	(18	352)											
134	<400>																	
135			_	_		_		-			_		_		-		cagctg	60
136		gtg	gccc	cgt t	ggad	ctcgg	ge ec	ctago	ggaad	ggo	ggcg					-	g atc	115
137													_	/ Ala	Pro	_	ı Ile	
138		L ~ -					L L			.	.	1					5	1.63
139						-	-				-			ctc	_		_	163
140 141		ser	H1S	ser	ьеu 10	АТА	ьeu	ьeu	ьeu	Cys 15	cys	ser	val	Leu	ser 20	ser	val	
141		tan	aa.	ct~		~=+	aaa	a+	ma+		ata	200	22~	~~~		~ 3~	atc	211
142														gag Glu		_		611
144		- y -	nia	25	Val	rop	ara	roh	30	VOI	TTC	TIT	nya	35	JIU	G111	110	
444				دے					50					33				

DATE: 03/10/2000 TIME: 15:41:06 PAGE: RAW SEQUENCE LISTING 4

PATENT APPLICATION US/09/199,874

Input Set: I199874.RAW

													_				
145	att	ctt	ctg	cgc	aat	gcc	cag	gcc	cag	tgt	gag	cag	cgc	ctg	aaa	gag	259
146	Ile	Leu	Leu	Arg	Asn	Ala	Gln	Ala	${\tt Gln}$	Cys	Glu	Gln	Arg	Leu	Lys	Glu	
147		40					45					50					
148	gtc	ctc	agg	gtc	cct	gaa	ctt	gct	gaa	tct	gcc	aaa	gac	tgg	atg	tca	307
149	Val	Leu	Arg	Val	Pro	Glu	Leu	Ala	Glu	Ser	Ala	Lys	Asp	Trp	Met	Ser	
150	55					60					65					70	
151	agg	tct	gca	aag	aca	aag	aag	gag	aaa	cct	gca	gaa	aag	ctt	tat	CCC	355
152	Arg	Ser	Ala	Lys	Thr	Lys	Lys	Glu	Lys	Pro	Ala	Glu	Lys	Leu	Tyr	Pro	
153					75					80					85		
154	cag	gca	gag	gag	tcc	agg	gaa	gtt	tct	gac	agg	agc	cgg	ctg	cag	gat	403
155	Gln	Ala	Glu	Glu	Ser	Arg	Glu	Val	Ser	Asp	Arg	Ser	Arg	Leu	Gln	Asp	
156				90					95					100			
157	ggc	ttc	tgc	cta	cct	gag	tgg	gac	aac	att	gtg	tgc	tgg	cct	gct	gga	451
158	Gly	Phe	Cys	Leu	Pro	Glu	Trp	Asp	Asn	Ile	Val	Cys	Trp	Pro	Ala	Gly	
159			105					110					115				
160	gtg	CCC	ggc	aag	gtg	gtg	gcc	gtg	CCC	tgc	CCC	gac	tac	ttc	tac	gac	499
161	Val	Pro	Gly	Lys	Val	Val	Ala	Val	Pro	Cys	Pro	Asp	Tyr	Phe	Tyr	Asp	
162		120					125					130					
163	ttc	aac	cac	aaa	ggc	cga	gcc	tat	cgg	cgc	tgt	gac	agc	aat	ggc	agc	547
164	Phe	Asn	His	Lys	Gly	Arg	Ala	Tyr	Arg	Arg	Cys	Asp	Ser	Asn	Gly	Ser	
165	135					140					145					150	
166	tgg	gag	ctg	gtg	cct	ggg	aac	aac	cgg	aca	tgg	gcg	aat	tac	agc	gaa	595
167	Trp	Glu	Leu	Val	Pro	Gly	Asn	Asn	Arg	Thr	Trp	Ala	Asn	Tyr	Ser	Glu	
168					155					160					165		
169	tgt	gtc	aag	ttt	ctg	acc	aac	gag	acc	cgg	gaa	cgg	gaa	gtc	ttt	gat	643
170	Cys	Val	Lys	Phe	Leu	Thr	Asn	Glu	Thr	Arg	Glu	Arg	Glu	Val	Phe	Asp	
171				170					175					180			
172	cgc	ctc	gga	atg	atc	tac	act	gtg	ggc	tac	tcc	atc	tct	ctg	ggc	tcc	691
173	Arg	Leu	Gly	Met	Ile	Tyr	Thr	Val	Gly	Tyr	Ser	Ile	Ser	Leu	Gly	Ser	
174			185					190					195				
175	ctc	act	gtg	gct	gtg	ctg	att	ctg	ggt	tac	ttt	agg	agg	tta	cat	tgc	739
176	Leu	Thr	Val	Ala	Val	Leu	Ile	Leu	Gly	Tyr	Phe	Arg	Arg	Leu	His	Cys	
177		200					205					210					
178	acc	cga	aac	tac	att	cac	atg	cat	ctc	ttc	gtg	tcc	ttt	atg	ctc	cgg	787
179	Thr	Arg	Asn	Tyr	Ile	His	Met	His	Leu	Phe	Val	Ser	Phe	Met	Leu	Arg	
180	215					220					225					230	
181	_	-	agc				_	-	-				_		_		835
182	Ala	Val	Ser	Ile	Phe	Ile	Lys	Asp	Ala	Val	Leu	Tyr	Ser	Gly	Val	Ser	
183					235					240					245		
184			gaa														883
185	Thr	Asp	Glu	Ile	Glu	Arg	Ile	Thr	Glu	Glu	Glu	Leu	Arg	Ala	Phe	Thr	
186				250					255					260			
187			CCC														931
188	Glu	Pro	Pro	Pro	Ala	Asp	Lys	Ala	Gly	Phe	Val	Gly	Cys	Arg	Val	Ala	
189			265					270					275				
190			gtc					_								_	979
191	Val		Val	Phe	Leu	Tyr		Leu	Thr	Thr	Asn	-	Tyr	Trp	Ile	Leu	
192		280					285					290					
193		-	ggc					_				_	_				1027
194	Val	Glu	Gly	Leu	Tyr	Leu	His	Ser	Leu	Ile	Phe	Met	Ala	Phe	Phe	Ser	

PAGE: 5 RAW SEQUENCE LISTING DATE: 03/10/2000

PATENT APPLICATION US/09/199,874 TIME: 15:41:06

Input Set: I199874.RAW

195	295					300					305					310		
196			_		ctc												1075	
197	Glu	Lys	Lys	Tyr	Leu	Trp	Gly	Phe	Thr		Phe	Gly	Trp	Gly		Pro		
198					315					320					325			
199				-	gct					_							1123	
200	Ala	Val	Phe		Ala	Val	Trp	Val	Thr	Val	Arg	Ala	Thr		Ala	Asn		
201				330					335					340				
202					gac	_											1171	
203	Thr	Glu	Cys	Trp	Asp	Leu	Ser	Ser	Gly	Asn	Lys	Lys	_	Ile	Ile	Gln		
204			345					350					355					
205	_			-	gca	_		-									1219	
206	Val		Ile	Leu	Ala	Ala		Val	Val	Asn	Phe		Leu	Phe	Ile	Asn		
207		360					365					370						
208			_	_	ctg	-								_		-	1267	
209			Arg	Val	Leu		Thr	Lys	Leu	Arg		Thr	Asn	Ala	Gly			
210	375					380					385					390		
211	_	_	_		caa	_		_	_								1315	
212	Cys	Asp	Thr	Arg	Gln	Gln	Tyr	Arg	Lys		Leu	Lys	Ser	Thr		Val		
213					395					400					405			
214		_	_		ttt						_		_	_	_	_	1363	
215	Leu	Met	Pro		Phe	Gly	Val	His	-	ITe	Val	Phe	Met		Thr	Pro		
216				410					415					420				
217				-	tca						_						1411	
218	Tyr	Thr		Val	Ser	GIY	IIe		Trp	GIn	Val	GIn		His	Tyr	GIU		
219			425	4.				430					435		.	.	1.450	
220	-				tca		_				_	-				_	1459	
221	мет		Pne	Asn	Ser	Pne		GLY	Pne	Pne	vaı		ше	тте	ıyr	Cys		
222		440					445					450				~~~	1507	
224		_			gag Glu	_		_			_	_			_	-	1507	
225	455	Cys	ASII	GIY	GIU	460	GIII	MIA	GIU	116	465	nys	per	пр	Ser	470		
226		200	cta	acc	ttg		tta	224	caa	220		caa	ant	aac	agg		1555	
227			_	-	Leu	-		_		_	_		-				1333	
228	110		DCu	nia	475	nop	1110	Lys	g	480	niu	J	501	O+3	485	501		
229	acc	tac	agc	tat	ggc	CCC	atσ	ata	tca		aca	aσt	atc	acc		ata	1603	
230					Gly													
231		-1-		490	1				495					500				
232	gga	cct	cga	aaa	ggg	cta	acc				agc	cct	cga		act	cct	1651	
233					Gly													
234	2		505	1	1			510					515					
235	qqq	qct		qcc	agt	qcc	aat	ggc	cat	cac	caq	ttq	cct	qqc	tat	gtg	1699	
236					Ser													
237	•	520	•				525	•				530		•	-			
238	aag	cat	ggt	tcc	att	tct	gag	aac	tca	ttg	cct	tca	tct	ggc	cca	gag	1747	
239	_				Ile					-								
240	535		-			540					545			-		550		
241	cct	ggc	acc	aaa	gat	gac	ggg	tat	ctc	aat	ggc	tct	gga	ctt	tat	gag	1795	
242					Asp													
243		_			555	_	-	,		560	-				565			
ease Note:	cca	atg	gtt	ggg	gaa	cag	ccc	cct	cca	ctc	ctg	gag	gag	gag	aga	gag	1843	
se of n and/ r Xa	a hav	e hee	n def	ected	d in th	ne Se	auen	ce Li	stino	. Ple	ase r	eviev	v the			/		

Use of n and/ r Xaa have been detected in the Sequence Listing. Please review the Sequence Listing t ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

PAGE: 6

VERIFICATION SUMMARY
PATENT APPLICATION US/09/199,874

DATE: 03/10/2000

TIME: 15:41:06

Input Set: I199874.RAW

Line ? Error/Warning Original Text
